UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. LAROIA 17-10-5-1

Total Pages in this Submission 31

TO THE ASSISTANT COMMISSIONER FOR PATENTS

	Washington, D.C. 20231	
Transmitted her	rewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent appli	ication for an
nvention entitle METHOD AI COMMUNIC	ND APPARATUS FOR TIME AND FREQUENCY SYCHRONIZATION OF OFDM CATION SYSTEMS	84581
and invented by	r.	
Rajiv LAROI	A, Junyi LI, Sundeep RANGAN, and Hemanth T. SAMPATH	011
If a CONTINUA	ATION APPLICATION, check appropriate box and supply the requisite information:	
☐ Continuat	tion Divisional Continuation-in-part (CIP) of prior application No.:	
Which is a: Continuat Which is a:	tion Divisional Continuation-in-part (CIP) of prior application No.:	
☐ Continuat	tion Divisional Continuation-in-part (CIP) of prior application No.:	
Enclosed are:	According to the second	
	Application Elements	
1. 🗵 Filir	ng fee as calculated and transmitted as described below	
2. 🛛 Spe	ecification having pages and including the following:	
a. 🛚	Descriptive Title of the Invention	
b. 🗀	Cross References to Related Applications (if applicable)	
с. 🔲	Statement Regarding Federally-sponsored Research/Development (if applicable)	
d. 🗆	Reference to Microfiche Appendix (if applicable)	
e. 🛚	Background of the Invention	
f. 🗵	Brief Summary of the Invention	
g. 🛚	Brief Description of the Drawings (if drawings filed)	
h. 🛚	Detailed Description	
i. 🗵	Claim(s) as Classified Below	
i. 🗵	Abstract of the Disclosure	

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	Application Elements (Continued)									
3.	X	Dra	awing(s) (when r	necessary as prescribed b	oy 35 US	SC 113)				
	a.		Formal	Number of Sheets						
	b.	X	Informal	Number of Sheets		11				
4.	\boxtimes	Oat	Dath or Declaration							
	a.	X	Newly execute	ed (original or copy)	☐ Un	nexecuted				
	b.		Copy from a pr	rior application (37 CFR 1	i.63(d)) ((for continuation	/divisional application only)			
	C.	X	☑ With Power of Attorney ☐ Without Power of Attorney							
	 d. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b). 									
5.		The Box	Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.							
6.		Cor	nputer Program	in Microfiche (Appendix)						
7.		Nuc	cleotide and/or A	Amino Acid Sequence Sub	omission	ı <i>(if applicable,</i>	all must be included)			
	a.		Paper Copy				,			
	b.	b. Computer Readable Copy (identical to computer copy)								
	c. Statement Verifying Identical Paper and Computer Readable Copy									
				Accompanying	g Applic	cation Parts				
8.	⋈✓	/ Ass	ignment Papers	(cover sheet & document	t(s))					
9.		37 (CFR 3.73(B) Sta	atement (when there is an	assigne	∍e)				
10.		Eng	English Translation Document (if applicable)							
11.		Information Disclosure Statement/PTO-1449 Copies of IDS Citations								
12.		Prel	liminary Amendn	nent						
13.	X	Ackı	nowledgment po	ostcard						
14.	\boxtimes	Cert	tificate of Mailing	3						
			First Class 🗵	Express Mail (Specify	≀Label N	Vo.): EL63562	8490US			

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Docket No. LAROIA 17-10-5-1

Total Pages in this Submission 31

Accompanying Application Parts (Continued)									
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)							
16.		Additional Enclosures (please identify below):							
		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)							
17.		Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.							
	Warning								
	An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.								

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Fee Calculation and Transmittal

		CLAIMS	AS FILED			
For	#Filed	#Allowed	#Extra		Rate	Fee
otal Claims	36	- 20 =	16	x	\$18.00	\$288.00
ndep. Claims	12	- 3 =	9	x	\$80.00	\$720.00
luitiple Dependent C	laims (check	if applicable)				\$0.00
					BASIC FEE	\$710.00
OTHER FEE (specify	purpose)					\$0.00
					TOTAL FILING FEE	\$1,718.00
☑ Credit any☑ Charge an☐ Charge the	v. A duplicate e amount of overpayment. y additional fil	copy of this she \$1,718.00 ing fees required t in 37 C.F.R. 1.1	et is enclosed as filing fee. I under 37 C.F	.r. 1.16,	and 1/.1/7. Notice of Allowance,	8 36,120

cc:

			Ι				
CERTIFICATE OF	Docket No. LAROIA 17-10-5-1, 375824/013						
Applicant(s): LAROIA,							
Serial No.	Serial No. Filing Date Examiner						
Not yet assigned.	Herewith.	Not yet assigned.	Not yet assigned.				
Invention: METHOD A COMMUNIC	ND APPARATUS FOR TIME AN	ND FREQUENCY SYCHRON	NIZATI	ON OF OFDM			
Utility Patent Applicati	on Transmittal, Patent Application	on (31 pages), Drawings (11 pa	nges), D	eclaration and Power of			
	(Identify type o	of correspondence)	<u>.</u>				
is being deposited with	the United States Postal Service	ce "Express Mail Post Office	to Add	dressee" service under			
37 CFR 1.10 in an enverse June 19,		nt Commissioner for Patents	, Wash	ington, D.C. 20231 on			
Jennifer Bartolo							
(Typed or Printed Name of Person Mailing Correspondence) (Signature of Person Mailing Correspondence) EL635628490US							
		("Express Mail" Mailing	g Label N	sumber)			

Note: Each paper must have its own certificate of mailing.